IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS CERTIFICATE USA/0462/S-96, REVISION 6

East Building, PHH-23 1200 New Jersey Avenue SE Washington, D.C. 20590

Pipeline and Hazardous Materials Safety Administration

This certifies that the sources described have been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive material.

- 1. <u>Source Identification</u> Eckert & Ziegler Isotope Products Laboratories Models 3021-1 (formerly 3021), 3021-2 and 3027.
- 2. Source Description - Cylindrical double (Model 3021-2) or triple (Models 3021-1 and 3027) encapsulations made of either Type 304 (Models 3021-1 and 3021-2) or Type 316 (Model 3027) stainless steel and fusion seal welded. Approximate outer dimensions are 12.7 mm (0.5 in.) in diameter and either 12.7 mm (0.5 in.) (Models 3021-1 and 3021-2) or 19.1 mm (0.75 in.) (Model 3027) in length. The inner encapsulation of the Models 3021-1 and 3027 is a QSA Global, Inc. Technology QSA, Inc. and Amersham) (formerly AEA Model Construction shall be in accordance with attached Eckert & Ziegler Isotope Products Drawing No. 3021-REG, Rev. A, Sheet 1 of 2 (Model Sheet 2 of 2 (Model 3021-2) or Isotope Products 3021-1)or Laboratories Drawing No. 3027, Rev. C, Sheet 3 of 7 (Model 3027).
- 3. Radioactive Contents No more than 1.48 GBq (40.0 mCi) of Americium-241 for the Models 3021-1 and 3027. No more than 3.7 GBq (100.0 mCi) of Americium-241 for the Model 3021-2. The Am-241 is in the form of an oxide mixed with beryllium powder (Models 3021-1 and 3027) or in the form of an oxide mixed with beryllium powder as a compressed powder pellet (Model 3021-2).
- 4. Quality Assurance Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.

[&]quot;Regulations for the Safe Transport of Radioactive Material, 1996
Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the
International Atomic Energy Agency(IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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5. <u>Expiration Date</u> - This certificate expires on February 28, 2012. On May 31, 2008, this certificate supersedes all previous revisions of USA/0462/S-96.

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the February 20, 2008 petition by Eckert & Ziegler Isotope Products, Valencia, CA, and in consideration of other information on file in this Office.

Certified By:

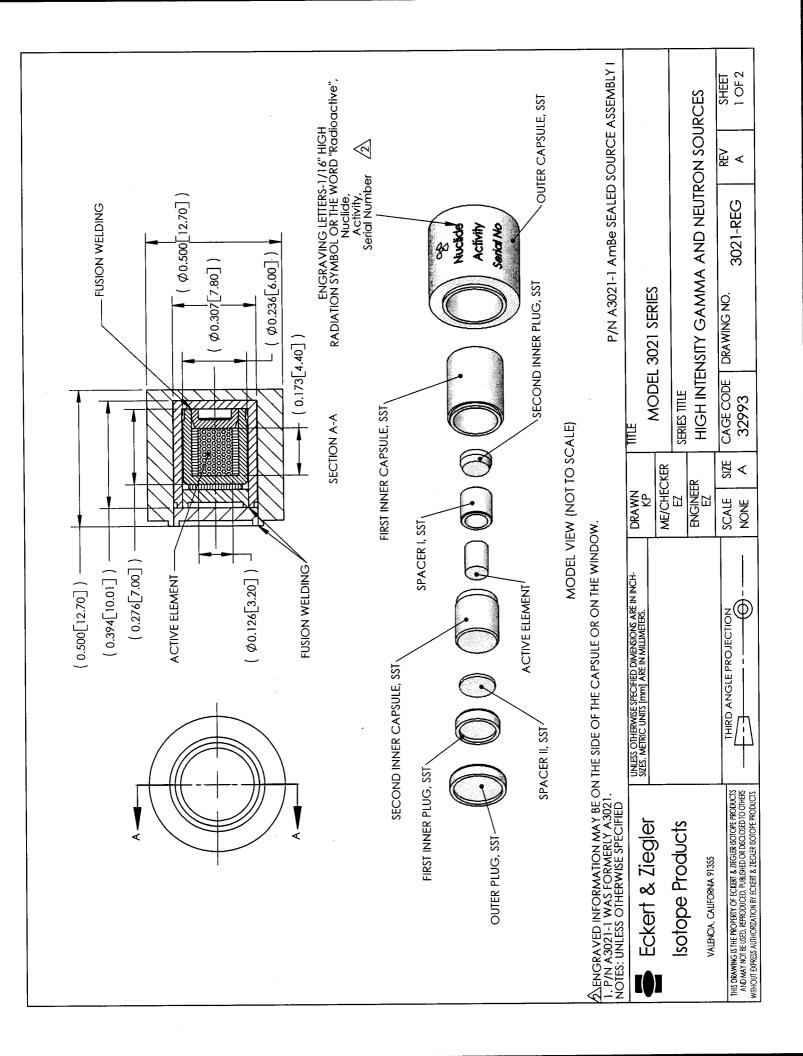
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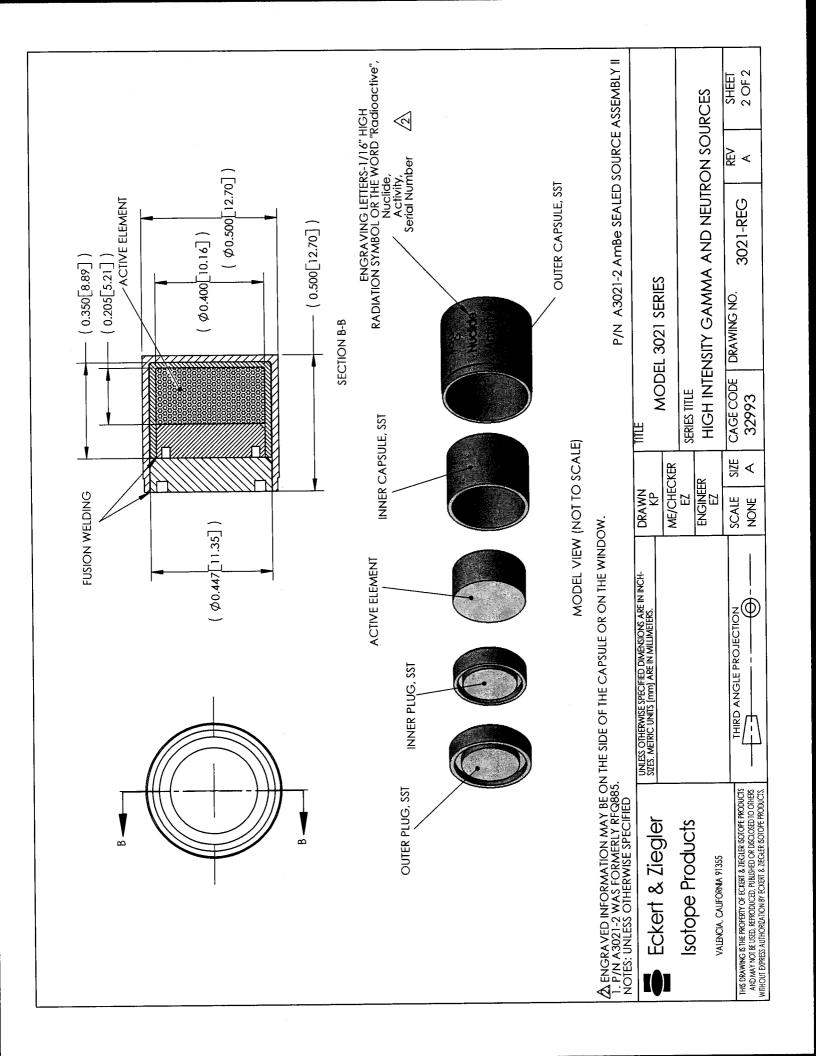
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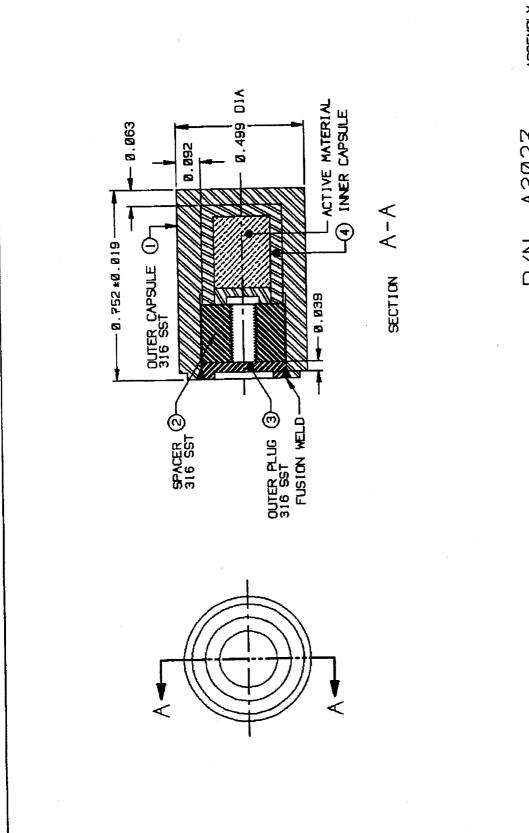
(DATE)

Deputy Associate Administrator for Hazardous Materials Safety

Revision 6 - Issued to add new model, redesignate Model 3021, and update drawings and corporate name.







P/N: A3027

ASSEMBLY

ESIGN DRAWING TITLE MO/RLT Ambe NEUTRON SOURCE	FRAC- DECIMAL SOURCE. 1.01 .01 .002 ±.5 NONE HIGH INTENSITY GAMMA AND NEUTRON	SIZE CAGE CODE REVISION DRAWING NUMBER SHEET A 32993 C 3027 3 OF 7
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Pipeline and Hazardous Materials Safety Administration

CERTIFICATE NUMBER: USA/0462/S-96, Revision 6

ORIGINAL REGISTRANT(S):

Ms. Frida Tan Regulatory Affairs manager Eckert & Ziegler Isotope Products 24937 Avenue Tibbitts Valencia, 91355 USA

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